

PAGE: 1

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/943,722DATE: 02/22/2002
TIME: 02:19:57

INPUT SET: S36725.raw

This Raw Listing contains the General
Information Section and up to the first 5 pages.

1 SEQUENCE LISTING
2
3 (1) General Information:
4
5 (i) APPLICANT:
6 (A) NAME: THE GOVERNMENT OF THE UNITED STATES OF AMERICA AS
7 REPRESENTED BY THE SECRETARY, DEPARTMENT OF HEALTH
8 AND HUMAN SERVICES
9 (B) STREET: BOX OTT
10 (C) CITY: BETHESDA
11 (D) STATE OR PROVINCE: MARYLAND
12 (E) COUNTRY: UNITED STATES OF AMERICA
13 (F) POSTAL CODE: 20892

ENTERED

RECEIVED

MAR 04 2002

TECH CENTER 1600/2900

- 14
15 (i) APPLICANT:
16 (A) NAME: PAVLAKIS, GEORGE N.
17 (B) STREET: 9 PURDUE COURT
18 (C) CITY: ROCKVILLE
19 (D) STATE OR PROVINCE: MARYLAND
20 (E) COUNTRY: UNITED STATES OF AMERICA
21 (F) POSTAL CODE: 20850
22
23 (i) APPLICANT:
24 (A) NAME: FELBER, BARBARA K.
25 (B) STREET: 9 PURDUE COURT
26 (C) CITY: ROCKVILLE
27 (D) STATE OR PROVINCE: MARYLAND
28 (E) COUNTRY: UNITED STATES OF AMERICA
29 (F) POSTAL CODE: 20850
30
31 (ii) TITLE OF INVENTION: METHOD OF ELIMINATING
32 INHIBITORY/INSTABILITY REGIONS OF mRNA
33
34 (iii) NUMBER OF SEQUENCES: 130
35
36 (iv) CORRESPONDENCE ADDRESS:
37 (A) ADDRESSEE: MORGAN & FINNEGAN
38 (B) STREET: 345 PARK AVENUE
39 (C) CITY: NEW YORK
40 (D) STATE: NEW YORK
41 (E) COUNTRY: USA
42 (F) ZIP: 10154
43
44 (v) COMPUTER READABLE FORM:
45 (A) MEDIUM TYPE: FLOPPY DISK
46 (B) COMPUTER: IBM PC COMPATIBLE

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/943,722DATE: 02/22/2002
TIME: 02:19:58

INPUT SET: S36725.raw

47 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
48 (D) SOFTWARE: WORDPERFECT 5.1
49
50 (vi) CURRENT APPLICATION DATA:
51 (A) APPLICATION NUMBER: 09/943,722
52 (B) FILING DATE:
53 (C) CLASSIFICATION:
54
55 (vii) PRIOR APPLICATION DATA:
56 (A) APPLICATION NUMBER: 08/850,049
57 (B) FILING DATE:
58
59 (vii) PRIOR APPLICATION DATA:
60 (A) APPLICATION NUMBER: US 08/050,478
61 (B) FILING DATE: 26-OCT-1994
62 (C) CLASSIFICATION:
63
64 (vii) PRIOR APPLICATION DATA:
65 (A) APPLICATION NUMBER: PCT/US93/02908
66 (B) FILING DATE: 29-MAR-1993
67 (C) CLASSIFICATION:
68
69 (vii) PRIOR APPLICATION DATA:
70 (A) APPLICATION NUMBER: US 07/858,747
71 (B) FILING DATE: 27-MAR-1992
72 (C) CLASSIFICATION:
73
74 (viii) ATTORNEY/AGENT INFORMATION:
75 (A) NAME: MORRY, MARY J
76
77
78
79
80
81
82
83
84
85
86 (B) REGISTRATION NUMBER: 34,398
87 (C) REFERENCE/DOCKET NUMBER: 2026-4006US1
88
89 (ix) TELECOMMUNICATION INFORMATION:
90 (A) TELEPHONE: (212)758-4800
91 (B) TELEFAX: (212) 751-6849
92
93 (2) INFORMATION FOR SEQ ID NO: 1:
94
95 (i) SEQUENCE CHARACTERISTICS:
96 (A) LENGTH: 396 BASE PAIRS
97 (B) TYPE: NUCLEIC ACID
98 (C) STRANDEDNESS: SINGLE
99 (D) TOPOLOGY: LINEAR

INPUT SET: S36725.raw

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101 (xi) SEQUENCE DESCRIPTION:SEQ ID NO: 1:
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103 ATGGGTGCGA GAGCGTCAGT ATTAAGCGGG GGAGAATTAG ATCGATGGGA AAAAATTCGG 60
104
105 TTAAGGCCAG GGGGAAAGAA AAAATATAAA TAAACACATA TAGTATGGC AAGCAGGGAG 120
106
107 CTAGAACGAT TCGCAGTTAA TCCTGGCCTG TTAGAACAT CAGAAGGCTG TAGACAAATA 180
108
109 CTGGGACAGC TACAACCATC CCTTCAGACA GGATCAGAAG AACTTAGATC ATTATATAAT 240
110
111 ACAGTAGCAA CCCTCTATTG TGTGCATCAA AGGATAGAGA TAAAAGACAC CAAGGAAGCT 300
112
113 TTAGACAAGA TAGAGGAAGA GCAAAACAAA AGTAAGAAAA AAGCACAGCA AGCAGCAGCT 360
114
115 GACACAGGAC ACAGCAATCA GGTCAGCCAA AATTAC 396
116
117

118 (2) INFORMATION FOR SEQ ID NO: 2:

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120 (i) SEQUENCE CHARACTERISTICS:
121 (A) LENGTH: 51 BASE PAIRS
122 (B) TYPE: NUCLEIC ACID
123 (C) STRANDEDNESS: SINGLE
124 (D) TOPOLOGY: LINEAR
125

126 (xi) SEQUENCE DESCRIPTION:SEQ ID NO: 2:
127

128 CCAGGGGAA AGAAAAAATA TAAATTAAAA CATATAGTAT GGGCAAGCAG G 51
129
130

131 (2) INFORMATION FOR SEQ ID NO: 3:

132
133 (i) SEQUENCE CHARACTERISTICS:
134 (A) LENGTH: 48 BASE PAIRS
135 (B) TYPE: NUCLEIC ACID
136 (C) STRANDEDNESS: SINGLE
137 (D) TOPOLOGY: LINEAR
138

139 (xi) SEQUENCE DESCRIPTION:SEQ ID NO: 3:
140

141 CCTTCAGACA GGATCAGAAG AACTTAGATC ATTATATAAT ACAGTAGC 48
142
143

144 (2) INFORMATION FOR SEQ ID NO: 4:

145
146 (i) SEQUENCE CHARACTERISTICS:
147 (A) LENGTH: 50 BASE PAIRS
148 (B) TYPE: NUCLEIC ACID
149 (C) STRANDEDNESS: SINGLE
150 (D) TOPOLOGY: LINEAR
151

152 (xi) SEQUENCE DESCRIPTION:SEQ ID NO: 4:

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/943,722DATE: 02/22/2002
TIME: 02:19:58

INPUT SET: S36725.raw

153
154 ACCCTCTATT GTGTGCATCA AAGGATAGAG ATAAAAGACA CCAAGGAAGC 50
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156
157
158
159
160
161
162
163
164
165
166 (2) INFORMATION FOR SEQ ID NO: 5:
167 (i) SEQUENCE CHARACTERISTICS:
168 (A) LENGTH: 50 BASE PAIRS
169 (B) TYPE: NUCLEIC ACID
170 (C) STRANDEDNESS: SINGLE
171 (D) TOPOLOGY: LINEAR
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173 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
174
175 GAGCAAAACA AAAGTAAGAA AAAAGCACAG CAAGCAGCAG CTGACACAGG 50
176
177
178 (2) INFORMATION FOR SEQ ID NO: 6:
179
180 (i) SEQUENCE CHARACTERISTICS:
181 (A) LENGTH: 51 BASE PAIRS
182 (B) TYPE: NUCLEIC ACID
183 (C) STRANDEDNESS: SINGLE
184 (D) TOPOLOGY: LINEAR
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186 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
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188 CCAGGGGGAA AGAAGAAGTA CAAGCTAAAG CACATCGTAT GGGCAAGCAG G 51
189
190
191 (2) INFORMATION FOR SEQ ID NO: 7:
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193 (i) SEQUENCE CHARACTERISTICS:
194 (A) LENGTH: 48 BASE PAIRS
195 (B) TYPE: NUCLEIC ACID
196 (C) STRANDEDNESS: SINGLE
197 (D) TOPOLOGY: LINEAR
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199 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
200
201 CCTTCAGACA GGATCAGAGG AGCTTCGATC ACTATACAAAC ACAGTAGC 48
202
203
204 (2) INFORMATION FOR SEQ ID NO: 8:
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RAW SEQUENCE LISTING
PATENT APPLICATION US/09/943,722DATE: 02/22/2002
TIME: 02:19:59

INPUT SET: S36725.raw

206 (i) SEQUENCE CHARACTERISTICS:
207 (A) LENGTH: 50 BASE PAIRS
208 (B) TYPE: NUCLEIC ACID
209 (C) STRANDEDNESS: SINGLE
210 (D) TOPOLOGY: LINEAR
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212 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
213
214 ACCCTCTATT GTGTGCACCA GCGGATCGAG ATCAAGGACA CCAAGGAAGC 50
215
216
217 (2) INFORMATION FOR SEQ ID NO: 9:
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219 (i) SEQUENCE CHARACTERISTICS:
220 (A) LENGTH: 50 BASE PAIRS
221 (B) TYPE: NUCLEIC ACID
222 (C) STRANDEDNESS: SINGLE
223 (D) TOPOLOGY: LINEAR
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225 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
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227 GAGCAAAACA AGTCCAAGAA GAAGGCCAG CAGGCAGCAG CTGACACAGG 50
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230 (2) INFORMATION FOR SEQ ID NO: 10:
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232 (i) SEQUENCE CHARACTERISTICS:
233 (A) LENGTH: 68 BASE PAIRS
234 (B) TYPE: NUCLEIC ACID
235 (C) STRANDEDNESS: SINGLE
236 (D) TOPOLOGY: LINEA
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248 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
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250 GAATAGTGCT GTTAACCTCC TGAACGCTAC CGCTATCGCC GTGGCGGAAG GAACCGACAG 60
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252 GGTTATAG 68
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254
255 (2) INFORMATION FOR SEQ ID NO: 11:
256
257 (i) SEQUENCE CHARACTERISTICS:
258 (A) LENGTH: 62 BASE PAIRS

INPUT SET: S36725.raw

| Line | Error | Original Text |
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| 5 | Mandatory Value Not Present | (i) APPLICANT: |
| 6 | Unknown or Misplaced Identifier | (A) NAME: THE GOVERNMENT OF THE UNITED STA |
| 9 | Unknown or Misplaced Identifier | (B) STREET: BOX OTT |
| 10 | Unknown or Misplaced Identifier | (C) CITY: BETHESDA |
| 11 | Unknown or Misplaced Identifier | (D) STATE OR PROVINCE: MARYLAND |
| 12 | Unknown or Misplaced Identifier | (E) COUNTRY: UNITED STATES OF AMERICA |
| 13 | Unknown or Misplaced Identifier | (F) POSTAL CODE: 20892 |
| 15 | Mandatory Value Not Present | (i) APPLICANT: |
| 16 | Unknown or Misplaced Identifier | (A) NAME: PAVLAKIS, GEORGE N. |
| 17 | Unknown or Misplaced Identifier | (B) STREET: 9 PURDUE COURT |
| 18 | Unknown or Misplaced Identifier | (C) CITY: ROCKVILLE |
| 19 | Unknown or Misplaced Identifier | (D) STATE OR PROVINCE: MARYLAND |
| 20 | Unknown or Misplaced Identifier | (E) COUNTRY: UNITED STATES OF AMERICA |
| 21 | Unknown or Misplaced Identifier | (F) POSTAL CODE: 20850 |
| 23 | Mandatory Value Not Present | (i) APPLICANT: |
| 24 | Unknown or Misplaced Identifier | (A) NAME: FELBER, BARBARA K. |
| 25 | Unknown or Misplaced Identifier | (B) STREET: 9 PURDUE COURT |
| 26 | Unknown or Misplaced Identifier | (C) CITY: ROCKVILLE |
| 27 | Unknown or Misplaced Identifier | (D) STATE OR PROVINCE: MARYLAND |
| 28 | Unknown or Misplaced Identifier | (E) COUNTRY: UNITED STATES OF AMERICA |
| 29 | Unknown or Misplaced Identifier | (F) POSTAL CODE: 20850 |

PAGE: 1

SEQUENCE MISSING ITEM REPORT
PATENT APPLICATION US/09/943,722

DATE: 02/22/2002
TIME: 02:20:05

INPUT SET: S36725.raw

<< THERE ARE NO ITEMS MISSING >>

SEQUENCE CORRECTION REPORT
PATENT APPLICATION US/09/943,722DATE: 02/22/2002
TIME: 02:20:05

INPUT SET: S36725.raw

| Line | Original Text | Corrected Text |
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| 118 | (3) INFORMATION FOR SEQ ID NO: 2: | (2) INFORMATION FOR SEQ ID NO: 2: |
| 126 | (xi) SEQUENCE DESCRIPTIONS:SEQ ID NO: 2: | (xi) SEQUENCE DESCRIPTION:SEQ ID NO: 2: |
| 131 | (4) INFORMATION FOR SEQ ID NO: 3: | (2) INFORMATION FOR SEQ ID NO: 3: |
| 139 | (xi) SEQUENCE DESCRIPTIONS:SEQ ID NO: 3: | (xi) SEQUENCE DESCRIPTION:SEQ ID NO: 3: |
| 144 | (5) INFORMATION FOR SEQ ID NO: 4: | (2) INFORMATION FOR SEQ ID NO: 4: |
| 152 | (xi) SEQUENCE DESCRIPTIONS:SEQ ID NO: 4: | (xi) SEQUENCE DESCRIPTION:SEQ ID NO: 4: |
| 166 | (6) INFORMATION FOR SEQ ID NO: 5: | (2) INFORMATION FOR SEQ ID NO: 5: |
| 173 | (xi) SEQUENCE DESCRIPTIONS:SEQ ID NO: 5: | (xi) SEQUENCE DESCRIPTION:SEQ ID NO: 5: |
| 178 | (7) INFORMATION FOR SEQ ID NO: 6: | (2) INFORMATION FOR SEQ ID NO: 6: |
| 191 | (8) INFORMATION FOR SEQ ID NO: 7: | (2) INFORMATION FOR SEQ ID NO: 7: |
| 204 | (9) INFORMATION FOR SEQ ID NO: 8: | (2) INFORMATION FOR SEQ ID NO: 8: |
| 217 | (10) INFORMATION FOR SEQ ID NO: 9: | (2) INFORMATION FOR SEQ ID NO: 9: |
| 230 | (11) INFORMATION FOR SEQ ID NO: 10: | (2) INFORMATION FOR SEQ ID NO: 10: |
| 255 | (12) INFORMATION FOR SEQ ID NO: 11: | (2) INFORMATION FOR SEQ ID NO: 11: |
| 270 | (13) INFORMATION FOR SEQ ID NO: 12: | (2) INFORMATION FOR SEQ ID NO: 12: |
| 283 | (14) INFORMATION FOR SEQ ID NO: 13: | (2) INFORMATION FOR SEQ ID NO: 13: |
| 296 | (15) INFORMATION FOR SEQ ID NO: 14: | (2) INFORMATION FOR SEQ ID NO: 14: |
| 311 | (16) INFORMATION FOR SEQ ID NO: 15: | (2) INFORMATION FOR SEQ ID NO: 15: |
| 334 | (17) INFORMATION FOR SEQ ID NO: 16: | (2) INFORMATION FOR SEQ ID NO: 16: |
| 347 | (18) INFORMATION FOR SEQ ID NO: 17: | (2) INFORMATION FOR SEQ ID NO: 17: |
| 360 | (19) INFORMATION FOR SEQ ID NO: 18: | (2) INFORMATION FOR SEQ ID NO: 18: |
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| 408 | (22) INFORMATION FOR SEQ ID NO: 21: | (2) INFORMATION FOR SEQ ID NO: 21: |
| 421 | (23) INFORMATION FOR SEQ ID NO: 22: | (2) INFORMATION FOR SEQ ID NO: 22: |
| 434 | (24) INFORMATION FOR SEQ ID NO: 23: | (2) INFORMATION FOR SEQ ID NO: 23: |
| 447 | (25) INFORMATION FOR SEQ ID NO: 24: | (2) INFORMATION FOR SEQ ID NO: 24: |
| 460 | (26) INFORMATION FOR SEQ ID NO: 25: | (2) INFORMATION FOR SEQ ID NO: 25: |
| 473 | (27) INFORMATION FOR SEQ ID NO: 26: | (2) INFORMATION FOR SEQ ID NO: 26: |
| 496 | (28) INFORMATION FOR SEQ ID NO: 27: | (2) INFORMATION FOR SEQ ID NO: 27: |
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| 522 | (30) INFORMATION FOR SEQ ID NO: 29: | (2) INFORMATION FOR SEQ ID NO: 29: |
| 535 | (31) INFORMATION FOR SEQ ID NO: 30: | (2) INFORMATION FOR SEQ ID NO: 30: |
| 548 | (32) INFORMATION FOR SEQ ID NO: 31: | (2) INFORMATION FOR SEQ ID NO: 31: |
| 570 | (33) INFORMATION FOR SEQ ID NO: 32: | (2) INFORMATION FOR SEQ ID NO: 32: |
| 583 | (34) INFORMATION FOR SEQ ID NO: 33: | (2) INFORMATION FOR SEQ ID NO: 33: |
| 596 | (35) INFORMATION FOR SEQ ID NO: 34: | (2) INFORMATION FOR SEQ ID NO: 34: |
| 609 | (36) INFORMATION FOR SEQ ID NO: 35: | (2) INFORMATION FOR SEQ ID NO: 35: |
| 622 | (37) INFORMATION FOR SEQ ID NO: 36: | (2) INFORMATION FOR SEQ ID NO: 36: |
| 635 | (38) INFORMATION FOR SEQ ID NO: 37: | (2) INFORMATION FOR SEQ ID NO: 37: |
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| 733 | (44) INFORMATION FOR SEQ ID NO: 43: | (2) INFORMATION FOR SEQ ID NO: 43: |
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SEQUENCE CORRECTION REPORT
PATENT APPLICATION US/09/943,722DATE: 02/22/2002
TIME: 02:20:05

INPUT SET: S36725.raw

| Line | Original Text | Corrected Text |
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| 772 | (47) INFORMATION FOR SEQ ID NO: 46: | (2) INFORMATION FOR SEQ ID NO: 46: |
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| 798 | (49) INFORMATION FOR SEQ ID NO: 48: | (2) INFORMATION FOR SEQ ID NO: 48: |
| 821 | (50) INFORMATION FOR SEQ ID NO: 49: | (2) INFORMATION FOR SEQ ID NO: 49: |
| 834 | (51) INFORMATION FOR SEQ ID NO: 50: | (2) INFORMATION FOR SEQ ID NO: 50: |
| 847 | (52) INFORMATION FOR SEQ ID NO: 51: | (2) INFORMATION FOR SEQ ID NO: 51: |
| 860 | (53) INFORMATION FOR SEQ ID NO: 52: | (2) INFORMATION FOR SEQ ID NO: 52: |
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| 1251 | (79) INFORMATION FOR SEQ ID NO: 78: | (2) INFORMATION FOR SEQ ID NO: 78: |
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| 1299 | (82) INFORMATION FOR SEQ ID NO: 81: | (2) INFORMATION FOR SEQ ID NO: 81: |
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| 1387 | (88) INFORMATION FOR SEQ ID NO: 87: | (2) INFORMATION FOR SEQ ID NO: 87: |
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SEQUENCE CORRECTION REPORT
PATENT APPLICATION US/09/943,722DATE: 02/22/2002
TIME: 02:20:05

INPUT SET: S36725.raw

| Line | Original Text | Corrected Text |
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| 1462 | (93) INFORMATION FOR SEQ ID NO: 92: | (2) INFORMATION FOR SEQ ID NO: 92: |
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| 1488 | (95) INFORMATION FOR SEQ ID NO: 94: | (2) INFORMATION FOR SEQ ID NO: 94: |
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| 1527 | (98) INFORMATION FOR SEQ ID NO: 97: | (2) INFORMATION FOR SEQ ID NO: 97: |
| 1549 | (99) INFORMATION FOR SEQ ID NO: 98: | (2) INFORMATION FOR SEQ ID NO: 98: |
| 1562 | (100) INFORMATION FOR SEQ ID NO: 99: | (2) INFORMATION FOR SEQ ID NO: 99: |
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| 1662 | (107) INFORMATION FOR SEQ ID NO: 106: | (2) INFORMATION FOR SEQ ID NO: 106: |
| 1675 | (108) INFORMATION FOR SEQ ID NO: 107: | (2) INFORMATION FOR SEQ ID NO: 107: |
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| 1786 | (115) INFORMATION FOR SEQ ID NO: 114: | (2) INFORMATION FOR SEQ ID NO: 114: |
| 1799 | (116) INFORMATION FOR SEQ ID NO: 115: | (2) INFORMATION FOR SEQ ID NO: 115: |
| 1812 | (117) INFORMATION FOR SEQ ID NO: 116: | (2) INFORMATION FOR SEQ ID NO: 116: |
| 1825 | (118) INFORMATION FOR SEQ ID NO: 117: | (2) INFORMATION FOR SEQ ID NO: 117: |
| 1838 | (119) INFORMATION FOR SEQ ID NO: 118: | (2) INFORMATION FOR SEQ ID NO: 118: |
| 1860 | (120) INFORMATION FOR SEQ ID NO: 119: | (2) INFORMATION FOR SEQ ID NO: 119: |
| 1873 | (121) INFORMATION FOR SEQ ID NO: 120: | (2) INFORMATION FOR SEQ ID NO: 120: |
| 1886 | (122) INFORMATION FOR SEQ ID NO: 121: | (2) INFORMATION FOR SEQ ID NO: 121: |
| 1899 | (123) INFORMATION FOR SEQ ID NO: 122: | (2) INFORMATION FOR SEQ ID NO: 122: |
| 1912 | (124) INFORMATION FOR SEQ ID NO: 123: | (2) INFORMATION FOR SEQ ID NO: 123: |
| 1925 | (125) INFORMATION FOR SEQ ID NO: 124: | (2) INFORMATION FOR SEQ ID NO: 124: |
| 1948 | (126) INFORMATION FOR SEQ ID NO: 125: | (2) INFORMATION FOR SEQ ID NO: 125: |
| 1960 | (127) INFORMATION FOR SEQ ID NO: 126: | (2) INFORMATION FOR SEQ ID NO: 126: |
| 1973 | (128) INFORMATION FOR SEQ ID NO: 127: | (2) INFORMATION FOR SEQ ID NO: 127: |
| 2002 | (129) INFORMATION FOR SEQ ID NO: 128: | (2) INFORMATION FOR SEQ ID NO: 128: |
| 2293 | (130) INFORMATION FOR SEQ ID NO: 129: | (2) INFORMATION FOR SEQ ID NO: 129: |
| 2641 | (131) INFORMATION FOR SEQ ID NO: 130: | (2) INFORMATION FOR SEQ ID NO: 130: |
| 2648 | (ii) MOLECULAR TYPE: PROTEIN | (ii) MOLECULE TYPE: PROTEIN |
| 2650 | (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 130 | (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 130: |